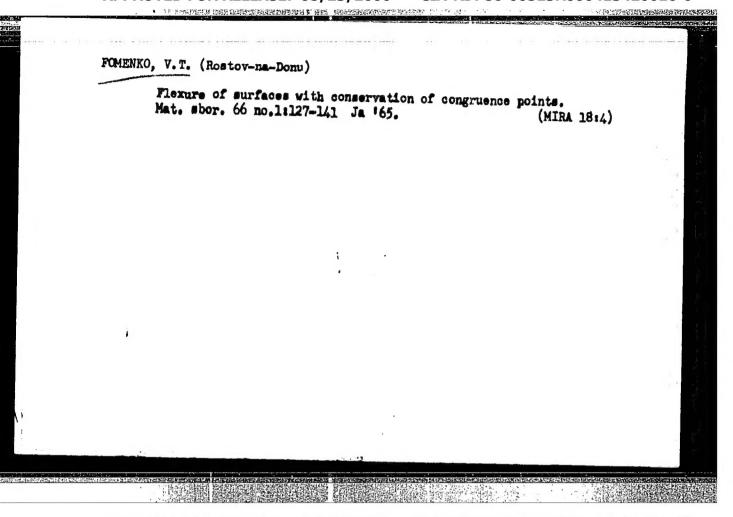
FOMERIKO, V.T.

Infinitesimal deformations of surfaces in the case of sleeve couplings. Dokl. AN SSSR 157 no.4:810-813 Ag '64 (MIRA 17:8)

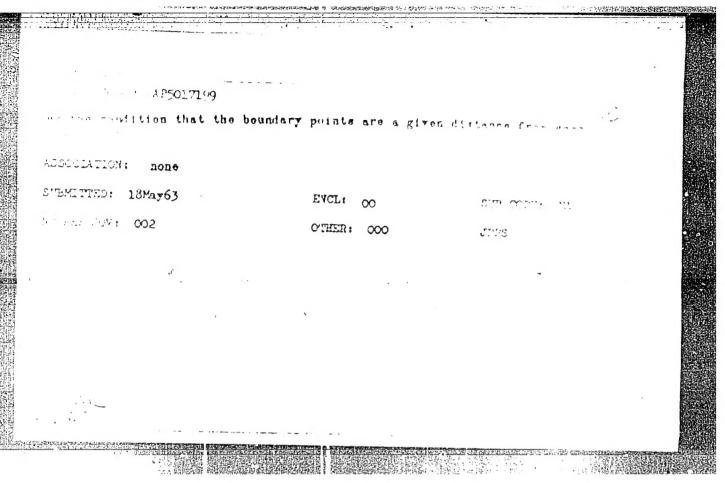
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1. Rostovskiy-na-Donu gosudarstvennyy universitet. Predstavleno akademikom 1.N. Vekua.

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Threinskiy matematicheskiy zhurnal, v. 16, no. 5, 1964, 600-704	
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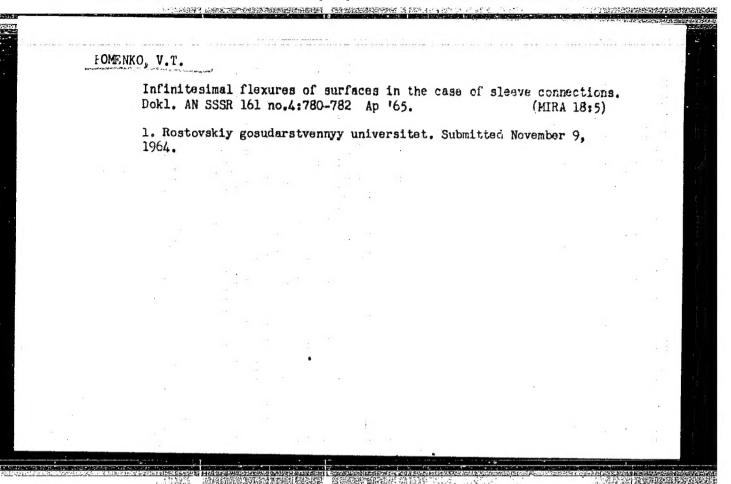
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FORENKO, V.T. (Rostov-na-Donu)

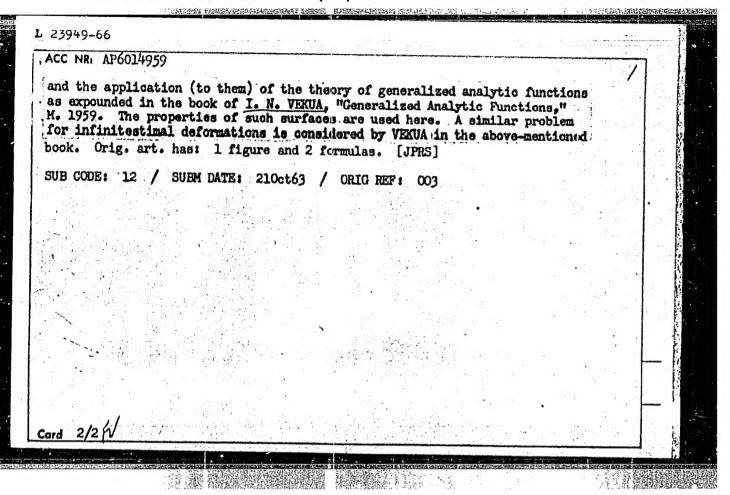
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(MIRA 18:8)



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ACC NR: AP6014959 SOURCE CODE: UR/0039/65/066/001/012	27/0141	
AUTHOR: Fomenko, V. T. (Rostov-na-Donu)	21	
ORG: none	B	
TITLE: Deformation of surfaces with the preservation of points of congruence		
SOURCE: Matematicheskiy sbornik, v. 66, no. 1, 1965, 127-141		
TOPIC TAGS: surface property, analytic function		
ABSTRACT: A surface is said to be deformed if there exists a family St of surfaces which are isometric to it and which are continuous functions of t. F. [0,1] and which contain this surface for some value of t. Two isometrically equivalent points of surfaces S and St respectively are called congruence points if in the corresponding directions passing through those points the normal curvatures coincide. If the points of the surfaces S and St are points of congruence for any t & [0,1], then the surface S is said to be deformed preserving the points of congruence.  Here is proven the deformability of a surface with positive curvature which preserves the congruence of a finite or countable set of points. The proof is based on the investigation of the fundamental equations of surface theory.		
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ACC NR: AP7008904

SOURCE CODE: UR/0199/66/007/004/0939/0953

AUTHOR: Fomenko, V. T.

ORG: none

TITLE: Infinitesimal deformations of convex surfaces with boundary

condition of generalized slip

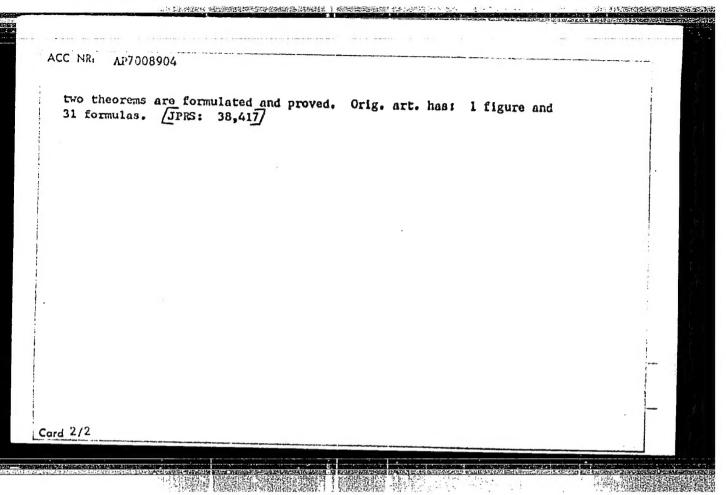
SOURCE: Sibirskiy matematicheskiy zhurnal, v. 7, no. 4, 1966, 939-953

TOPIC TAGS: boundary value problem, mathematics

ABSTRACT:

The problem of infinitesimal deformations of surfaces with the boundary condition of generalized slip, subject to certain constraints on surface and vector field  $\vec{l}$ , was previously studied by A. V. POGORELOV and by I. Kh. SABITOV. The following theorem was proved by POGORELOV: If vector field Z'at each point M of edge L coincides with the direction of vector OM, general convex surface So with the boundary condition of generalized slip permits exactly three linearly independent, infinitesimal deformations. SABITOV showed that this theorem remains valid if  $field \vec{l}$  along L differs little (in the sense of some norm) from vector field OM and surface So is regular. The

present article is devoted to evaluating the limits of variation of vector field within which the POGORELOV theorem remains valid, as well as evaluating the distribution density for vector fields of the given class for which the theorem is violated. A boundary value problem is formulated for the investigation of infinitesimal deformations of surfaces with the boundary condition of generalized slip. conditions are given for the solvability of the problem, and



GOSHIN, S.A., inzh.; LEREL', S.M., inzh.; FOMENKO, V.V., tekhn.

Semiautomatic machine for soldering cutter bits. Svar. proizv.
no.6137-38 Je '61. (MTRA 14:6)

1. Krasnoluchskiy mashinostroitel'nyy zavod.
(Ceal mining machinery-Welding)

#### "APPROVED FOR RELEASE: 08/23/2000

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Ugol' Ukr. 6 no.5:30 My '62. (MIRICALLE)

(Mine railroads—Equipment and supplies) (MIRA 15:11)

CIA-RDP86-00513R000413420016-0" APPROVED FOR RELEASE: 08/23/2000

FOMENKO, V.Yu.; SHCHERBAKOVA, K.F.; ANISTRAT, N.D.; MISHUROV, Ye.M.

New data on the interrelations between the rocks of the mikkle and upper series in the Krivoy Rog Basin. Dokl.AN SSSR 108 no.3: 535-537 My '56. (MLRA 9:8)

1. Predstavleno akademikom A.G. Betekhtinym. (Krivoy Rog-Rocke)

CALINDRICA AMERICANIAN MENTENDEN SECURENTEN (MELINE). (18)

AKIMENKO, N.M.; BELEVTSEV, Ya.N.; GOROSHNIKOV, B.I.; DUBINKINA, R.P.;
ISHCHENKO, D.I.; KARSHENNAUM, A.P.; KULISHOV, M.P.; LYASHCHENKO,
K.P.; MAKSIMOVICH, V.L.; SKURIDIN, S.A.; SIROSHTAW, R.I.; TOKHTUYEV,
G.V.; FOMENKO, K.F.; SHCHERBAKOVA, K.F.; SEMENOV, M.V., red.izd-va;
AVERKIYEVA, T.A., tekhn.red.

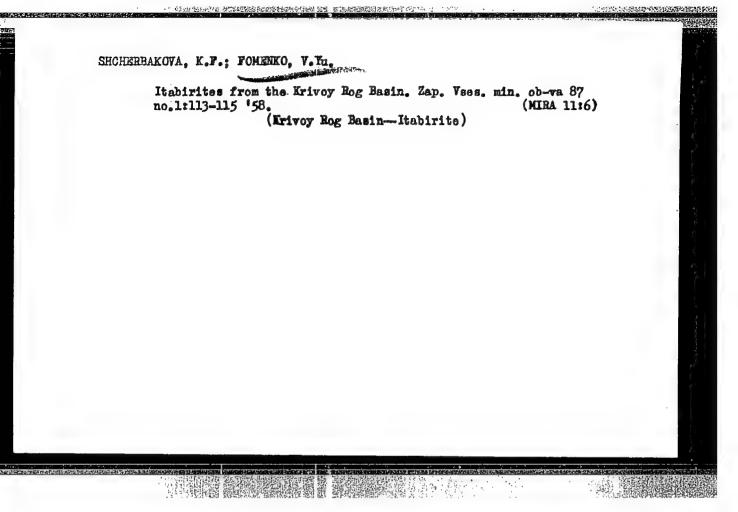
[Geological structure and iron ores of the Krivoy Rog Basin]
Geologicheskoe stroenie i zheleznye rudy Krivorozhskogo basaeina.
Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po geologii i okhrane
nedr, 1957. 278 p.

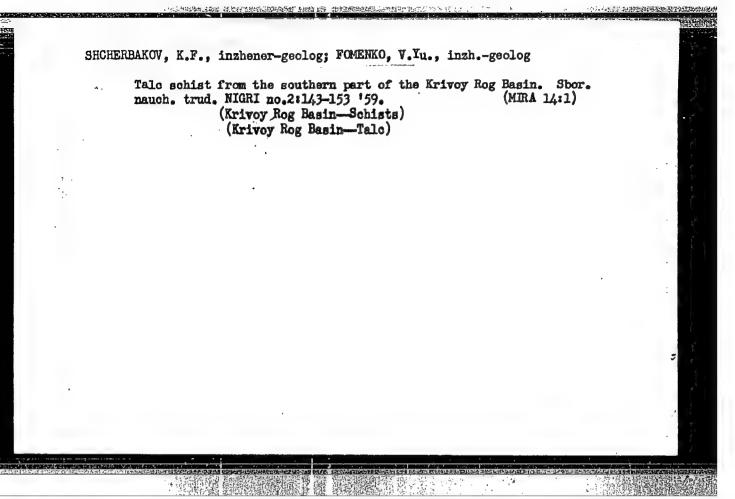
(Krivoi Rog Basin--Geology)

BELEVISHV, Ya.M.; AKIMENKO, M.M.; ZHIIKINS'KIY, S.I.; SHCHERBAKOV, B.D.; TOKHTUYEV, G.V.; SIROSHTAN, P.I.; FOMENKO, V.Yu.

Method for studying structures of the Krivoy Rog Basin, Geol. shur. 17 no.2:80-82 \*57. (MIRA 10:11) (Krivoy Rog Basin--Geology, Structural)

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Classification of rocks in the upper strata along the borders of the Il'ich Mine Administration in the Krivoy Rog Basin. Geol. zhur. 19 no.1:86-90 '59. (MIRA 12:2)

(Krivoy Rog Basin--Geology, Stratigraphic)

SHCHERBAKOVA, K.F., inzhener-geolog; FOMENKO, V.Yu., inzhener-geolog

Characteristics of the upper stratum and its division in the limits of the Il'ich Mine in the Krivoy Rog Basin. Sbor. nauch. trud.

NIGRI no.2:154-164 '59. (MIRA 14:1)

(Krivoy Rog Basin—Geology, Stratigraphic)

BELEVISEV, Ya.N; KALYAYEV, C.I.; ZAGORUYKO,L.G.; SKURIDIN,S.A.; STRYGIN, A.I.;
FEDYUSHIN, S.Te.; FOMENCO, V.fu.

Krivoy Rog-Eremenhug metallogenic zone. Geol.rud. mestorozh. no.6:
3-11 N-D '60. (MIRA14:3)

1. AN USSR, Geologischeskiy institut, Kiyev.
(Ukraine—Ore deposits)

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BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO,G.I.; MEL'NIK, Yu.P.; SIROSHTAN, R.I.; DOVGAN', M.N.; CHERNOVSKIY, M.I.; SHCHERBAKOVA, K.F.; ZAKORUYKO, L.G.; COROSHNIKOV, B.I.; AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, G.V.; KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.; STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.; CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA, P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; STRYGIN, A.I., red.; LADIYEVA, V.D., red.; ZHUKOV, G.V., red.; YEPATKO, Yu.M., red.; SHCHERBAKOV, B.D., red.; SLENZAK, O.I., red.izd-va; RAKHLINA, N.P., tekhn. red.

[Geology of Krivoy Rog iron-ore deposits]Geologiia Krivorozhskikh zhelezorudnykh mestorozhdenii. Kiev, Izd-vo Akad. nauk USSR.
Vol.1.[General problems in the geology of the Krivoy Rog Basin.
Geology and iron ores of the deposits of the "Ingulets,"
Rakhmanovo, and Il'ich Mines]Obshchie voprosy geologii Krivbassa.
Geologicheskoe stroenie i zheleznye rudy mestorozhdenii rudnikov
"Ingulets," Rakhmanovskogo i im. Il'icha. 1962. 479 p.

(Krivoy Rog Basin-Mining geology) (MIRA 16:3)

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BELEVTSEV, Ya.N.; FOMENKO, V.Yu.; NOTAROV, V.D.; MOLYAVKO, G.I.;

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M.I.; SHCHERBAKOVA, K.F.; ZAGORUYKO, L.G.; GOROSHNIKOV, B.I.;

AKIMENKO, N.M.; SEMERGEYEVA, Ye.A.; KUCHER, V.N.; TAKHTUYEV, G.V.;

KALYAYEV, G.I.; ZARUBA, V.M.; NAZAROV, P.P.; MAKSIMOVICH, V.L.;

STRUYEVA, G.M.; KARSHENBAUM, A.P.; SKARZHINSKAYA, T.A.;

CHEREDNICHENKO, A.I.; GERSHOYG, Yu.G.; PITADE, A.A.; RADUTSKAYA,

P.D.; ZHILKINSKIY, S.I.; KAZAK, V.M.; KACHAN, V.G.; POLOVKO, N.I.,

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and Il'ich ore deposits] Obshchie voprosy geologii Krivbassa.
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Metallogenetic features of the Ukranian iron-ore province. Zakonom. razm. polezn. iskop. 5:82-109 '62. (MIRA 15:12)

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BELEVTSEV, Ya.N.; BEYGULENKO, I.L.; BETIN, D.I.; BORISENKO, V.G.; GUBKINA, N.N.; DZHEDZALOV, A.T.; ZHILKINSKIY, S.I., prof.; ZALATA, L.F.; KAZAK, V.M.; MALYUTIN, Ye.I.; MUROMTSEVA, Z.G.; NATAROV, V.D., doktor geol.-miner. nauk; PANASENKO, V.N.; PITADE, A.A.; RADUTSKAYA, P.D.; SLEKTOR, S.M.; SMIRNOV, D.I.: TOKHTUYEV, G.V., kand. geol.-min. nauk; FOMENKO, V.Yu.; SLENZAK, O.I., red.izd-va; MATVEYCHUK, A.A., tekhn. red.

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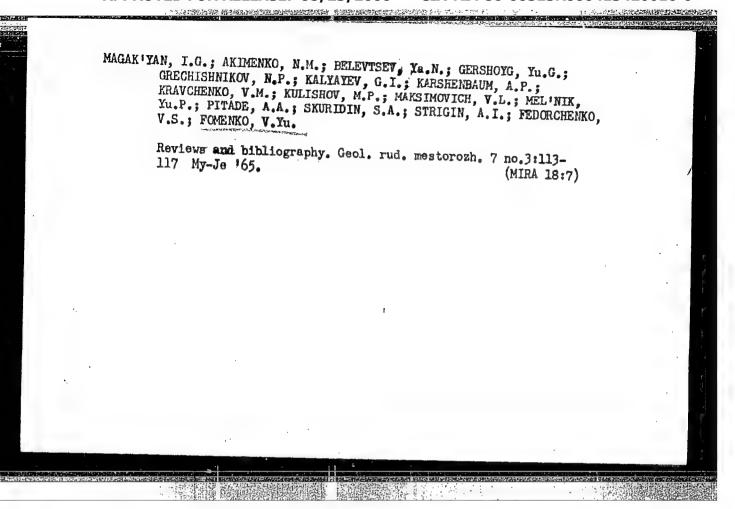
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AYZEN ÆRG, D.Ye.; BELEVTSEV, Ya.N.; BORDUNOV, I.N.; BORISENKO, S.T.;
BULKIN, G.A.; GORLITSKIY, B.A.; DOVGAN', M.N.; ZAGORUYKO,
L.G.; KAZAKOV, L.R.; KALYAYEV, G.I.; KARASIK, M.A.; KACHAN,
V.G.; KISELEV, A.S.; LAGUTIN, P.K.; LAZARENKO, Ye.K.;
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V.A.; LEVENSHTEYN, M.L.; MALAKHOVSKIY, V.F.; MITKEYEV, M.V.;
PRUSS, A.K.; SKARZHINSKIY, V.I.; SKURIDIN, S.A.; SOLOV'YEV,
F.I.; STRYGIN, A.I.; SUSHCHUK, Ye.G.; TEPLITSKAYA, E.V.;
FEDYUSHIN, S.Ye.; FOMENKO, V.Yu.; SHKOLA, T.N.; SHTERNOV,
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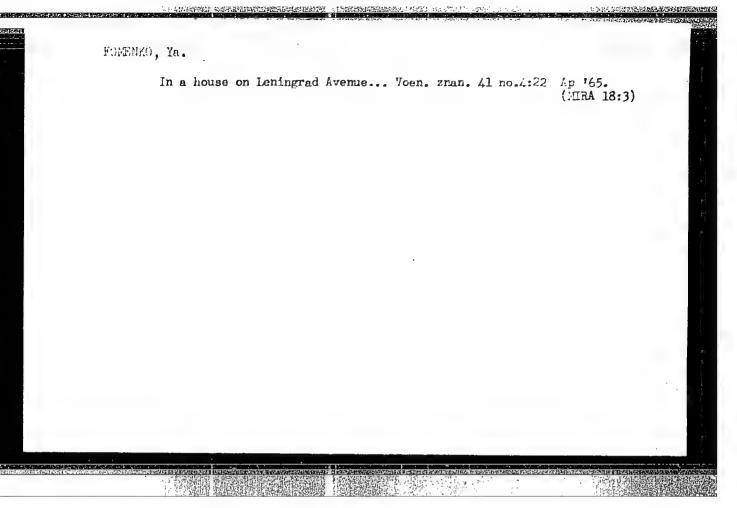
SO: Monthly List of Russian Accessions, Vol.6 No. 11 February 1954

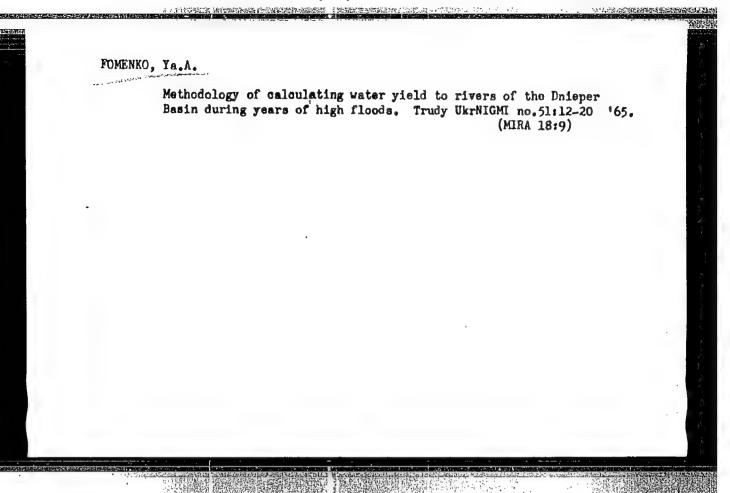
FOMENKO, Ya. (Zaporosh'ye-Melitopol'-Dzhankoy)

Farther south than Zaporosh'ye. Kryl.rod. 2 no.11:3-4 N \*51.

(Kakhouka Hydroelectric Power Station) (MIRA 8:8)

The brains, honor, and conscience of our people. Komm. Vooruzh.
Sil 2 no.19:18-24 0 '61. (MIRA 14:9)
(Communist Party of the Soviet Union)





POMENKO, YAKUV MIREAYLOVICE

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507/48-23-3-18/34 24(3) AUTHORS:

Smol'kov, N. A., Fomenko, Ye. I.

Some Properties of Ferrites at Super High Frequencies (Nekotoryye TITLE:

svoystva ferritov na sverkhvysokikh chastotakh)

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, PERIODICAL:

Vol 23, Nr 3, pp 377-379 (USSR)

As Polder (Ref 1) has theoretically shown, a high-frequency ABSTRACT:

> plane-polarized electromagnetic oscillation is decomposed into two waves when passing through a magnetized ferromagnetic: one wave is left handed circularly polarized and one righthanded. The velocities of propagation in both waves are different. For this reason the resulting plane-polarized wave which emerges from the ferromagnetic shows a rotation of the polarization plane by  $\varphi$  (compared to the incident wave) i.e. a Faraday effect may be observed which is similar to the optical one. Roberts (Ref 2) and Hogan (Ref 3) proved this experimentally with ferrites. Six diagrams are discussed. In the first diagram the rotation of the polarization plane in dependence of the external magnetic field H in a cylindri-

cal magnesium-manganese-ferrite sample (Mg0.75Mn0.25Fe204)

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Some Properties of Ferrites at Amer High Frequencies

at a frequency of 9350 Megacycles is shown. In the second diagram the same is demonstrated for magnesium-nickel-manganeseferrite. In the diagram 3a the damping of the polarized wave is shown in dependence of the external magnetic field ( ? has a sharp maximum), and in 3b the dependence of the ellipticity on the external magnetic field is shown; d shows a minimum at the same place where & has its maximum. The fourth diagram shows the dependence of the rotation of the polarization plane on the external magnetic field H for 6 different magnesiummanganese-ferrites. In the fifth diagram the angle of rotation of the polarization plane is shown for three different temperatures as a function of the mixing proportion between MnFe<sub>2</sub>0<sub>4</sub> and.  ${\rm MgFe}_2{\rm O}_4$  at a field strength of  ${\rm H}_{\rm o}$  = 460 Oe. There are 5 figures

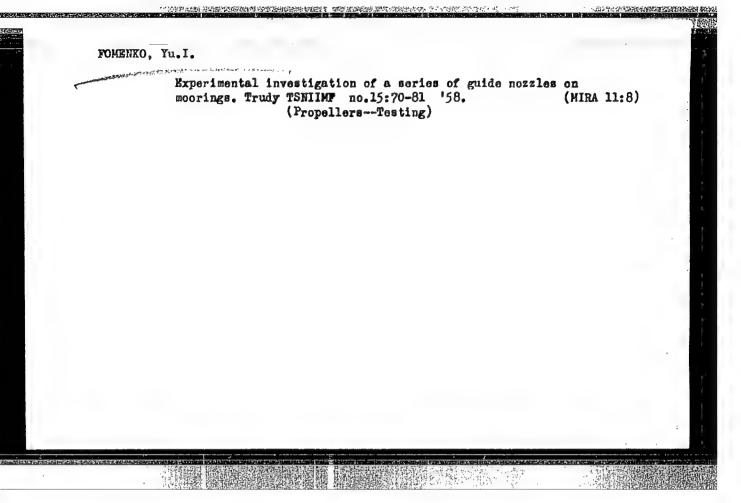
and 9 references, 3 of which are Soviet.

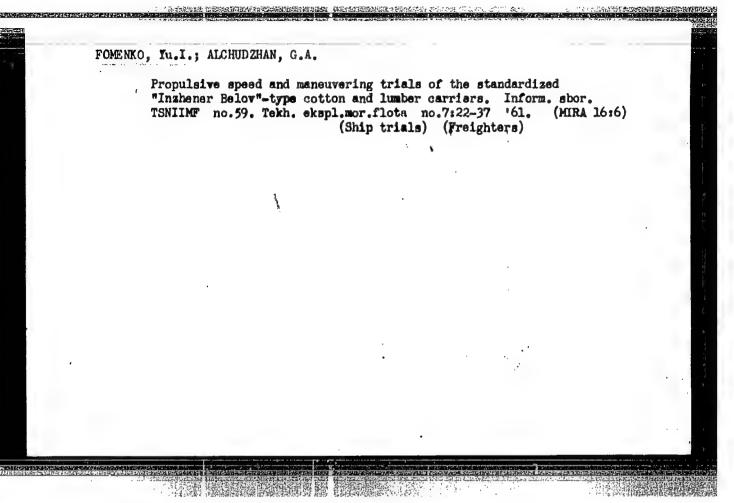
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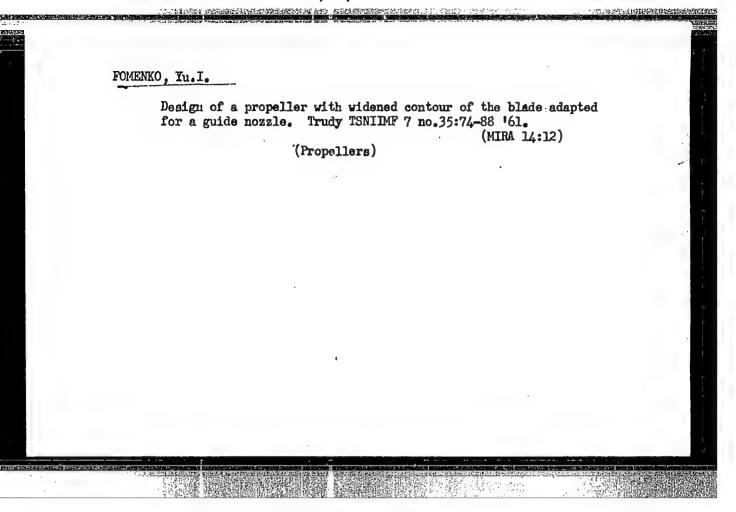
ESD EWI(1)/EWA(h) L00811-66 UR/0103/65/026/006/1112/1114 ACCESSION NR: AP5015912 621.373.9:538.63 AUTHOR: Bogomolov, V. N. (Leningrad); Gerayzade, A. P. (Leningrad); Pogodin (Leningrad); Fomenko, Ye. P. (Leningrad) TITIE: Galvanomagnetic oscillator SOURCE: Avtomatika i telemekhanika, v. 26, no. 6, 1965, 1112-1114 TOPIC TAGS: galvanomagnetic oscillator ABSTRACT: An experimental galvanomagnetic oscillator with an InSb magnetoresistor is briefly described. The oscillator developed 4.4 w continuously or 10 w for a short time at 28 cps and water cooling (was immersed in water); the efficiency was 15% at 10 w. It is pointed out that the existing theory correctly describes the actual oscillator behavior: the discrepancy between the theoretical and experimental oscillatory currents is only 10%. A method of measuring the oscillator characteristics is given. Orig. art. has: 3 figures, 3 formulas, and 1 table. ASSOCIATION: none SUB CODE: EC ENCL: 00 SUBMITTED: 22Feb64 NO\_REF SOV: 002 OTHER: 001

L 5371-66 EWT(1)/EPA(s)-2 ACC NR: AP5024577 SOURCE CODE: UR/0292/65/000/009/0018/0019 AUTHOR: Berger, A. Ya. (Prof.); Vodyako, I. M. (Engr.); Fedorov, V. F. (Engr.); Fomenko, Yu. A. (Engr.); Oranskiy, M. I. (Candidate of technical sciences) ORG: none TITLE: Induction motors with protective enclosures SOURCE: Elektrotekhnika, no. 9, 1965, 18-19 TOPIC TAGS: induction motor 1,44,65 ABSTRACT: The induction motors whose stator winding -- and sometimes also the rotor -- are protected against corrosive medium by a nonmagnetic-material enclosure are considered. Simple formulas based on an equivalent circuit are offered which allow for the variation of motor characteristics due to the presence of the enclosure. Three induction motors (A51-4, A52-4, and A-42-2) equipped with 1Kh16N9T stainlesssteel enclosures of different thicknesses and lengths were tested at 50 cps; also one of the motors was tested with a copper enclosure. These conclusions are reported: (1) The losses in the special-enclosure motors are higher and their specific power is lower than those of conventional motors; (2) Protective enclosures having Card 1/2 UDC: 621.313.333.2

ACC NR: AP5024577			2	5
protective enclosur	and length and a high resiste has no effect on the motes, 5 formulas, and 4 tables	or short-circuit param	; (3) The eters. Orig.	
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$Q(\cdot)$			•	







YEVREINOV, I.V., kand.tekhn.nauk, rukovoditel' raboty; ALFEROVA, N.V., kand.tekhn.nauk; GOL'DENFON, A.K., kand.tekhn.nauk; ZINCHENKO, V.I., kand.tekhn.nauk; KORCHAGIN, M.I., kand.tekhn.nauk; PANOV, V.A., kand.tekhn.nauk; URBANOVICH,'A.K., kand.tekhn.nauk; FOMENKO, Yu.I., kand.tekhn.nauk; YAKOVSKIY, F.V., kand.tekhn.nauk; LISIN, V.N., inzh.; LYUTOV, I.L., inzh.; NEYELOV, A.N., inzh.; STRUMPE, P.I., kand.tekhn.nauk, otv.red.; DRANITSYN, S.N., kand.tekhn.nauk, zam.otv.red.; GOROBETS, V.A., kand.voyen.-morskikh nauk, red.; MAKSIMADZHI, A.I., kand.tekhn.nauk, red.; ROZHDESTVENSKIY, N.A., kand.tekhn.nauk, red.; SYROMYATNIKOV, V.F., kand.tekhn.nauk, red.; LEBEDEVA, N.S., red.; STUL'CHIKOVA, N.P., tekhn.red.

[Methods of testing the thermodynamic efficiency of marine diesel engine power plants] Metodika teplotekhnicheskikh ispytanii dizel'nykh sudovykh ustanovok. Leningrad, 1962. 165 p. (Leningrad. TSentral'nyi nauchno-issledovatel'skii institut morskogo flota. Informatsionnyi sbornik, no.83/84. Tekhnicheskaia ekspluatatsiia, no.18/19). (MIRA 16:10)

1. Nachal'nik otdela tekhnicheskoy ekspluatatsii sudovykh silovykh ustanovok TSentral'nogo nauchno-issledovatel'skogo instituta morskogo flota (for Yevreinov). 2. TSentral'nyy nauchno-issledovatel'skiy institut morskogo flota (Alferova, Gol'denfon, Zinchenko, Korchagin, Panov, Urbanovich, Fomenko, Yakovskiy, Lisin, Lyutov, Neyelov).

P	Propulsive and manoeurvering trials of the motorship "Kirghizistan."				
1;	Inform. sbor. TSNIIMF no.75 Tekh. ekspl. mor. flots no.14:20-33 162. (MIRA 16:3)				
	(Ship trials)	(Ship propulsion)			
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FOMENKO, Yu. I.; ALCHUDZHAN, G.A.

Propulsive and manoeuvring trials of the passenger motorship "Grigorii Ordzhonikidze." Inform. sbor. TSNIIMF no.75: Tekh. ekspl. mor. flota no.14:3-19 \*62. (MIRA 16:3) (Ship trials) (Ship propulsion)

# "APPROVED FOR RELEASE: 08/23/2000

# CIA-RDP86-00513R000413420016-0

ACC NR: AT6014315	( /V ) so	URCE CODE: UR/2	752/63/000/049/0102/011 / 72	4
ATHOR: Fomenko, Yu. I. (	Candidate of techn	ical sciences)	71 B+	/
RG: None	•			
TOT 70 - 0 - 2 2 - 4 4 2 2			· v	
ITLE: Calculating the clessigning a nozzle-propell	earance between th er system 0-3	e end of the blac	le and the nozzle wall	'n
OURCE: Leningrad. Tsentr	al'nyy nauchno-isa	ledovatelickiv i	natitut morakoro flota	
rudy, no. 49, 1963. Gidro	mekhanika sudna (H	ydromechanics of	ships), 102-114	
OPIC TAGS: propeller bla		,	20	
BSTRACT: The author point the basis of systematic	tests of models o	ver the use of th	e vortex theory and pro	) <u> </u>
oses a method for designing curves plotted from s 958-1959 by the order of	ystematic test ser the Central Scient	ies of nozzle and ific Research Ins	l propeller models made stitute of the Maritime	in
leet in an experimental to ortex theory and the desi	gner may plan a no	zzle-propeller sy	stem rapidly and with	
imple calculations accoun- ace between the end of th	e blade and the no	zzle wall. The h	ydrodynamic design cur	res
re plotted in $K_8 - \lambda_e$ and $\sqrt{2}$	K <sub>2</sub> -λ <sub>e</sub> coordinates.	These diagrams	are similar to those u	ed
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diameters and seller system by the nozzle cosed method thou that the	optimum rpm are indicated and the hull is considered is discussed. An example to design of a nozzle-prop- correction for clearance	guide nozzles. Points corresp on the curves. Interaction b d, and the additional suction is given illustrating applica eller system for a small tanke between the blade and guide no	etveen the pro- force generated tion of the pro- r. The results zzle causes a con-
iderable char ropeller elem	nge in the theoretical velocents. Orig. art. has: 4	ocity of the ship and in the d figures, 5 tables, 20 formula	esign of screw
UB CODE: 13,	/ SUBM DATE: none/ ORIG	REF: 009/ OTH REF: 001	
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#### "APPROVED FOR RELEASE: 08/23/2000

#### CIA-RDP86-00513R000413420016-0

EWP(k)/ExT(m)/T-2/EWP(w)/EWP(v)IJF(c) ACC NR: AT6025574 SOURCE CODE: UR/2754/66/000/072/0060/0070 (N) Fomenko, Yu. I. (Candidate of technical sciences) ORG: None \* TITLE: Effect which the shape of the screw vortex system has on the hydrodynamic characteristics of the "screw propeller-guide nozzle" complex SOURCE: Leningrad. Tsentral nyy nauchno-issledovatel skiy institut morskogo flota. Trudy, no. 72, 1966. Gldromekhanika sudna (Hydromechanics of ships), 60-70 TOPIC TAGS: hydrodynamics, fluid mechanics, vortex flow, propeller blade, marine engineering ABSTRACT: The author generalizes Lavrent'yev's screw-nozzle theory (Lavrent'yev, V. M., "Design of Marine Screw Propellers", Leningrad, izd-vo "Morskoy transport", 1949) to the case of nonuniform loading along the disc of the screw. The problem reduces to Fredholm's linear integral equation of the first kind which is derived from the condition of a constant stream function on the contour of the nozzle. This integral equation is solved for the cases where the semi-infinite vortex cylinder substitute. tuted for the screw has a constant diameter equal to that of the screw and where this cylinder has a diameter greater than that of the screw. The counterflow and nozzleinduced velocities are theoretically calculated by the proposed method for a specific nozzle. The results show completely satisfactory agreement with experimental data Card 1/2 UDC: 629.12:532.582.5.001.5

complexes wit las.	istics and distri h nozzles of any	bution of nozzle-ishape. Orig. art.	used for finding the induced velocities has: 10 figures,	ne basic hydrody In designing sci 3 tables, 0 co-	ma-
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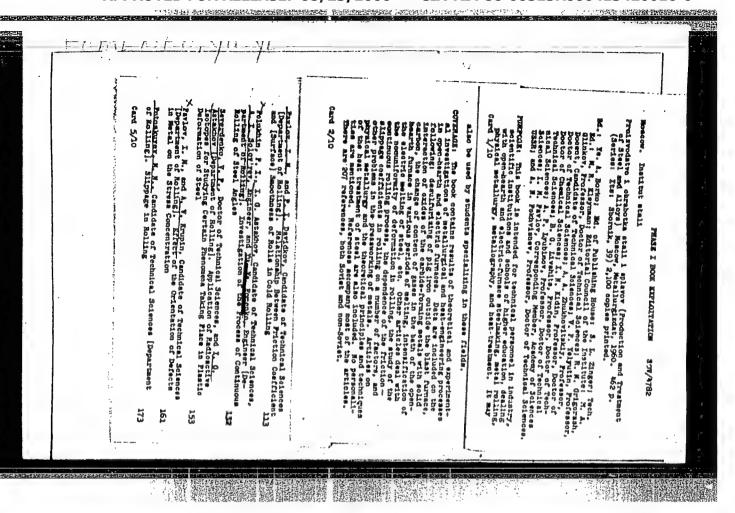
PAVLOV, I.M.; SUVOROV, I.K.; FOMENIO, Yu.Ye.

Improved cylindrical torsiometer with a cut-in strip. Izv.
vys.ucheb.Eav.; chern.met. no.5:72-75 '60.

(MIRA 13:6)

1. Moskovskiy institut stali.

(Torsion) (Masuring instruments)



S/148/60/000/007/005/015 A161/A029

AUTHORS: Osadchiy, V.Ya.; Fomenko, Yu.Ye.; Yeriklintsev, V.V.; Baykov, V.P.

TITLE: Metal Pressure on the Piercing Mill Rolls

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, 1960, Nr 7, pp 103-110

TEXT: An experimental investigation at Nikopol'skiy Yuzhnotrubnyy zavod (Nikopol' Tube Works) is described. The purpose was to study the dynamics of the process, which is important for full utilization of the power and mechanical strength of rolling mills as well as for establishing an optimum rolling process technology. The "400" installation of the plant used for experiments consists of two continuous heating furnaces; two piercing mills (with 960-860 mm diameter rolls and 2,350 kw motor); one reheating furnace before the spreading mill; an automatic spreading mill; two rolling-over mills; one sizing mill, and a cooler with a straightening machine. Both piercing mills are operating only when rolling largediameter and thin-walled tubes otherwise the piercing mill Nr 2 operates alone. It produces billets in a single piercing. Metal pressure on the

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s/148/60/000/007/005/015 A161/A029

Metal Pressure on the Piercing Mill Rolls

piercing mill rolls was measured with dynamometers placed between the screwdowns and the work roll bolster (Figure 1), in especially prepared casings (Figure 2). Pressure oscillograms are shown (Figure 3) and "decoded" (in Table 1). No sufficiently accurate theoretical or experimental data are yet available on the dependance of specific metal pressure on the basic piercing process parameters, and data obtained by experience are usually being employed in calculations of the piercing mill parts and technology. In the described investigation, mean pressure was determined by dividing the experimentally determined full metal pressure on the rolls by the contact area between the metal and the rolls:  $p = \frac{p}{a} kg/mm^2.$ 

A.I. Tselikov's method /Ref 3/ was used for determining the contact area, taking into account the ovality of the billet. The mean specific pressures are given in a table (Table 2). It was stated that for alloy steel the mean specific pressure is 10-14 kg/mm, and for carbon steel it reaches 7.5-12 kg/mm, which matches the data obtained in other investigations /Refs 1, 4 and 5/. The following conclusions were drawn: 1) In the two piercing mills studied the pressure was 33-92 ton, which is not high for this type of mills. In rolling

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Metal Pressure on the Piercing Mill Rolls

S/148/60/000/007/005/015 A161/A029

stainless and alloy steel the pressure is higher than in rolling carbon steel, provided that axial slip has no dominating effect as is the case in rolling 168x8 mm tubes of x 5B\$\overline{\pi}\$ (Kh5VF) and 168x10 mm tubes of \$\times\$ 5 (Kh5) steel tubes. When rolling tubes of equal diameter but different wall thickness, the pressure curve has a maximum. 2) The pressure on the inlet side screwdown is higher than on the outlet side screwdown: by 2-3 times in the piercing mill Nr 1, and 2-4 times in the Nr 2. Load on the outlet side bearings being much lower, their rated life time may be increased 2-2 times. 3) Only slip (lag) of metal was observed in the deformation zone, lead was absent. The axial slip coefficient was between 0.48 and 0.90. There are 8 figures and 5 Soviet references.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: June 24, 1959

Card 3/3

POLUKHIN, P.I., koktor tekhn.nauk; ASTAKHOV, I.G., kand.tekhn.nauk; SOLOV'YEV, A.I., inzh.; FOMENKO, Yu.Ye., inzh.

Investigating the continuous rolling process of angle steel. Sbor.Inst.stali no.39:132-152 60. (MIRA 13:7)

1. Kafedra prokatki Moskovskogo ordena Trudovogo Krasnogo Anameni instituta stali im. I.V.Stalina. (Rolling(Metalwork))

S/148/60/000/009/013/025 A161/A030

AUTHORS:

Pavlov, I.M., Suvorov, I.K., and Fomenko, Yu.Ye.

TITLE:

An investigation of scale on free-cutting steel and its

effect on friction in rolling

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya,

no. 9, 1960, 95-101

TEXT: Free-cutting steel causes difficulties in rolling, i.e. the grip of the rollers is not firm, the rollers slip on metal, the metal cracks and tears. Same difficulties are experienced with this steel abroad. The steel per GOST 1414-54 standard contains 0.08-0.30% S, up to 0.15% P and 0.45% C. Sulphur content sometimes reaches 0.5%. The causes of the trouble in rolling have not yet been investigated and no data on the matter exist in works on the melting, deoxidation and teeming of free-cutting steel (Ref.1-4). The described investigation has been carried out in rolling in a "750" billet mill, with free-cutting "A12" and "A12A" and structural steel for comparison. Scale was collected from under the rolls in the mill

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S/148/60/000/009/013/025 A161/A030

An investigation of scale ...

and from ingots. The temperature of scale softening was determined in an installation of Kafedra metallurgii chuguna MIS (The Chair of Iron Metallurgy of MIS) used for testing the softening of ore and sinter (Fig. 1). The softening point of the furnace scale was found at 1050°C. The softening point changed in rolling: 1000°C after the second pass: 950° after the third: 850° after the fifth and the seventh; 900° after the ninth. It drops from 1050° in the first pass to 850°, and rises again after the seventh. The content of C in the scale varied from 0.01 to 0.02%; of Mn from 0.6 to 0.7%; Si from 0.15 to 0.96%. The S content varied drastically: furnace scale contained 0.032-0.039% S, this content was maintained in the first and second pass, but in the third pass it rose to 0.15% and reached 0.39% in the fifth, then dropped to 0.15% in the seventh pass and to 0.10% after the ninth. Sulphur content in structural "20" steel scale was considerably lower. Curves of the sulphur content variation are shown (Fig.5). The curve of the roller grip (Fig. 1) clearly shows the influence of the sulphur content in the scale - gripping becomes difficult with a higher sulphur content. The sulphur distribution in the metal was investigated by Baumann sulphur prints and by chemical analysis taken from different

Card 2/6

An investigation of scale ...

S/148/60/000/009/013/025 A161/A030

portions of ingots and from rolled strip. It varied only insignificantly. Conclusions: 1) A difficult grip is characteristic of free-cutting steel compared with other steel grades. 2) The chemical composition of the scale changes in the rolling process, particularly the sulphur content. 3) The softening point of the scale collected in the rolling process is in the range 850-1050°C, and the softening point is lower with a higher sulphur content. 4) Increased sulphur content in the scale makes the gripping difficult. 5) The segregation of sulphur is insignificant in rolled steel and in ingots. 6) Sulphur segregation is not clearly expressed in steel with a high sulphur content; the sulphur content difference is low on a different level and across in the ingots. 7) The sulphur distribution is more even in free-cutting steel deoxidized with aluminum, and the size of sulphurous inclusions is smaller. 8) The sulphur distribution improves in rolled metal during the rolling process. This is more clearly expressed in "A12A" steel deoxidized with aluminum. There are 5 figures, 3 tables and 5 Sovietbloc references.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: 26 January 1960

Card 3/6

S/148/60/000/011/006/015 A161/A030

AUTHORS: Pavlov, I. M.; Suvorov, I. K., Fomenko, Yu. Ye.

TITLE: Investigation of free-cutting steel alloyed with titanium

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, nc. 11, 1960, 61 - 65

TEXT: As had been stated in a previous investigation (Ref. 1, same authors, Izv. vyssh. uch. zav. Chern. Metallurgiya, 1960, No. 7, 9) the cause of the difficult grip in rolling "A12" steel is the high sulfur content in scale. It lowers the softening point of scale, turning it into a lubricant. Besides, this steel contains low-celting Fe-FeS eutectic which can also decrease friction and this drastically decreases the plasticity of steel at the rolling temperature and the strip ends thus become rugged. Data of a work on systems Fe-Ti-S and Fe-Ti-C-S (Ref. 5, Fishel, V. Ru., D. Ellis. The desulfurating effects of titanium in steel, "Stal", 1953, No. 2) lead to the conclusion that the addition of titanium may improve the workability of hot steel, but there are no data in literature that would indicate the effect of titanium on the rolls grip on sulfurous steel,

Card 1/3

Investigation of free-cutting steel alloyed .... A161/A030 S/148/60/000/011/006/015

as well as the machinability and mechanical properties. Experiments have been carried out to this end at the electrometallurgical laboratory of the Moscow Steel Institute. The most even distribution in sulfides has been found in ingots alloyed with 0.19 % Ti. The machinability was tested by the standard "Two-cutters method" consisting in cutting with two cutters on a lathe (in this instance one cutter was carbide tipped and the other made of free-cutting steel), with electric wires welded to the cutters and connected to a galvanometer; the e.m.f. appearing in the ciruit due to different thermoelectric properties of the cutters is proportional to the heat forming in the metal being machined, and the higher the resistance to cutting is, the higher the current in the circuit. "A12" steel with 0.19 % Ti had the same machinability as the common steel without Ti, but the machinability was perceptibly worse when the Ti content was over 0.2 %. The friction factor in "A12" steel with 0.2 % Ti was corsiderably higher than in normal "A12" steel and even higher than in rolling the CT.3 (St.3) steel. Conclusion: Sulfurous "A12" steel with titanium has a high machinability, high friction factor in rolling and will cause no gripping diffi-

Card 2/3

Investigation of free-cutting steel alloyed ... A161/A030

culty; the effect of titanium addition on plasticity at high temperature is positive. There are 5 figures, 5 Soviet references and ! non-Soviet,

ASSOCIATION: Moskovskiy institut stall (Moscow Steel Institute)

SUBMITTED: May 14, 1960

Card 3/3

FOMENKO, Yu. Ye. Cand Tech Sci -- "Study of the rolling process of A-12 automatic steel in connection with conditions friction." Mos, 1961 (Acad Sci USSR. Inst of Metallurgy im A. A. Baykov). (KL, 4-61, 201)

25

SUVOROV, I. K., kand. tekhn. nauk; FOMENKO, Yu. Ye., kand. tekhn. nauk; KUDRYAVTSEV, A. S., inzh.; PAPCHENKO, V. I., inzh.

Investigating the coefficient of the position resultant during hot rolling in cylindrical rolls. Sbor. Inst. stali i splay. no.40:130-137 '62. (MIRA 16:1)

(Rolling (Metalwork))

POLUKHIN, P. I., prof., dektor tekhn. nauk; MASTEROV, V. A., inzh.;

POMENKO, Yu. Ye., kand. tekhn. nauk

Cemplex investigation of contact pressure and friction ferces
during relling. Sher. Inst. stali i splav. no.40:166-172

(Relling(Metalwerk))

(Pressure—Measurement)

(Friotien—Measurement)

FOMENKO, Yuriy Yevgen'yevich; FAYNSHTEYN, Vladimir Maksovich;
POZIN, Mikhail Solomonovich; LANOVSKAYA, M.R., red.izd-va;
ISLENT'YEVA, P.G., tekhn. red.

[Operator of guillotine shears] Rezchik gil'otinnykh nozhnits. Moskva, Metallurgizdat, 1963. 157 p. (MIRA 16:9) (Shears (Machine tools))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413420016-0"

DMITRIYEV, V.D.; SHEVAKIN, Yu.F.; FOMENKO, Yu.Ye.

Characteristics of the rolling of electrically welded stainless steelpipe on KhPt mills. Izv. vys. ucheb. zav.; chern. met. 7 no.11:100-104 '64. (MIRA 17:12)

1. Moskovskiy institut stali i splavov.

ZOLOTAREVA, A.I.; FOMENKO, Z.F.

Clays of the western provinces of the Ukraine as a raw material for preparing drilling muds. Trudy UkrNIGRI no.5:326-337 163.

Selecting clays for well drilling in the eastern part of the Ukraine. Ibid.:338-344 (MIRA 18:3)

FOMENKO, Z.F.; ZOLOTAREVA, A.I.; SENTSYUK, V.P.

Alcohol oils as an antifoaming-reagent for clay muds.

Neft. 1 gaz. prom. no.2:32-33 Ap-Je '64. (MIRA 17:9)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000413420016-0"

Fine testing of carbolineum, a new antiformer. Neft. 1 gaz. prom. 3:33-34 J1-3 '65. (MIRA 18:11)

ZOLOTAREVA, A.I.; FOMENKO, Z.F.; SHCHERBAKOVA, A.F.

Composition of water soluble salts in rocks of the Dolina oil field and its effect on the parameters of clay muda. Trudy UkrNIGRI no.7:126-130 \*63.

(MIRA 19:1)

EWT(E)/EWA(d)/EWP(+)/T/EWP(+)/EWP(h)/EWP(b) ASD(f)-3/ L 19839-65 HJW/JD/HH/HW ASD(m)-3/AFHDC 8/0148/64/000/011/0109/0104 ACCESSION NR: AP4049063 AUTHOR: Dmitriyev, V. D.; Shevakin, Yu. F.; Fomenko, Yu. Ye. TITLE: Peculiarities in the rolling of are-welded pipes of stainless steel on KhPT milling machines. SOURCE: IVUZ, Chernaya metallurgiya, no. 11, 1964, 100-104 TOPIC TAGS: stainless steel, stainless steel pipe, stainless steel rolling are welded pipe, place steel rolling mill, stainless steel structure, steel KhisNioT, KhPT rolling mill Microscopic analyses and comparisons with Scheffler's diagrams have shown the sulface near the welded joints of pipes made of Khinkit steel are due structure and that the cracks do not assess when he has at a turn a 3-5% then the counts are not cleaned before weith at and a causes reduction in both pape diameter and wull 1 of a ca-13 33 and 25 mm were quenched from 11000 and single shop them were on costructural analysis. Cracks appearing at the second of the surface  $\sim$  6 mm when the reduction in diameter reached  $45^{Q}_{\odot}$  and were due to the short at that spot and the differing properties of the metal of the seam. Though analysis showed that quenching brought the seam nearer uniformity with the erc 1/2

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other sections, milling led to the new appearance of cracks at the seams. This was corrected by choosing the correct angle of setting on the milling machine, since the reduction in diameter of the pipe is increased by an increase in setting angle. The calibration of the machine was determined by Yi, F. Shevaldn's functional method. Thus, the difference between forward and reverse strokes was minimized, and the welded pipes had mechanical and technological characteristics approaching those of seamless pipes. (hig. art. has:

ASSOCIATION: Moskovskiy institut stall I splavov (Moscow Institute of Steel and Alloys)

SUBMITTED: 21Feb64

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NO REF SOV: 006

OTHER: 003

Card 2/2

\*\*The Depth Guage Indicator Produced by the Krasnyy Instrumental shchik Plant\*\* Stanki i Instrument, 10, No. 6, 1939.

Report U-1505, 4 Oct 1951.

FOMERIOV, A. I.

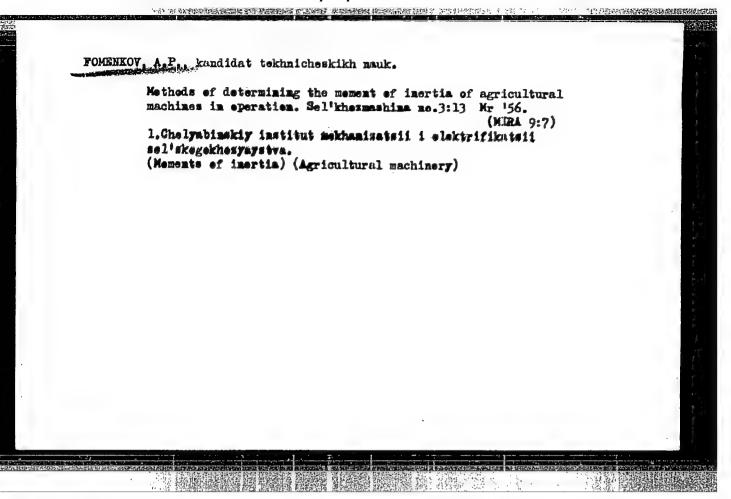
"A Device for Demagnetizing Measuring Tools," Stanki i Instrument, 10, Nos. 10-11, 1939.

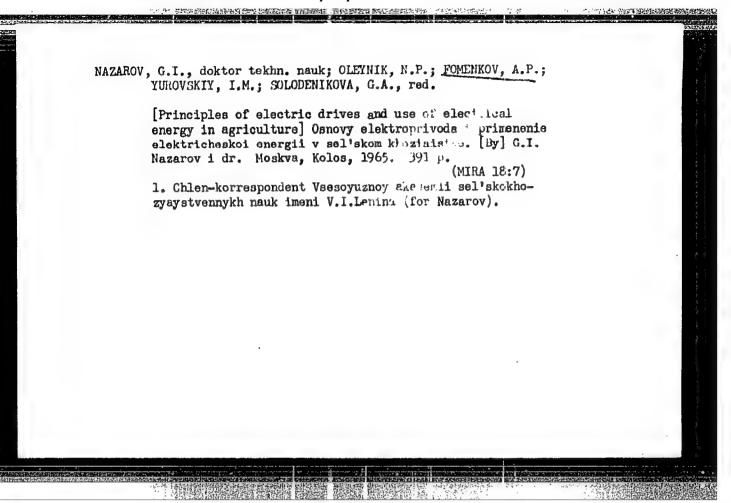
Report U-1505, 4 Oct 1951.

FOMENKOV, A. F. (Grad Stud)

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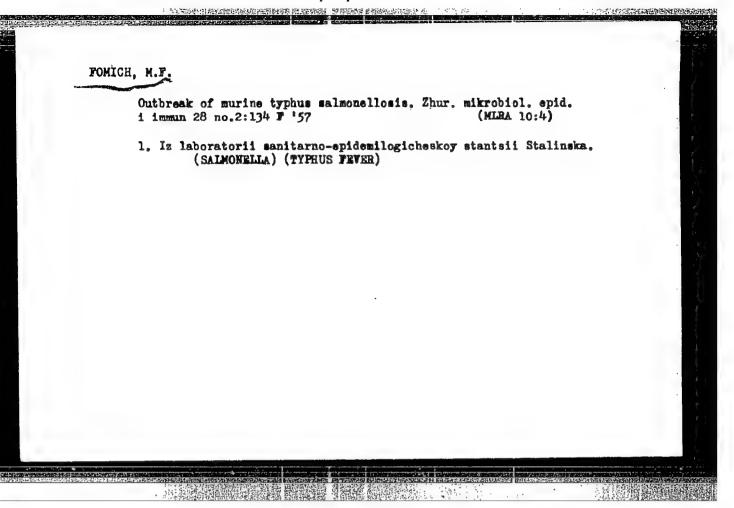
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Features of carbbohydrate metabolism and energy exchange in the brain following stimulation of the gastric receptors. Trudy Inst.fiziol.AN BSSE 3:140-154 159. (MIRA 13:7)

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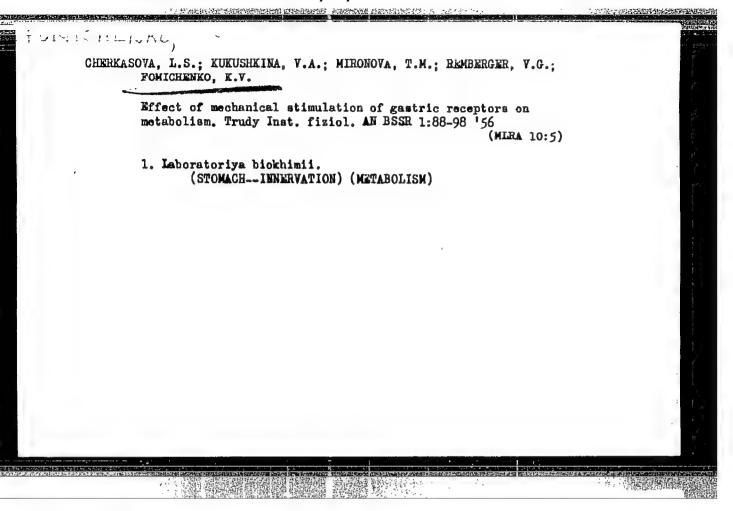
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AUTHOR: Fomichenko, K. V.; Lis'ko, N. A.  TITLE: Proteinogram of blood serum after chronic X irradiation	19 17 0	And the second s
SOURCE: AN BSSR. Doklady, v. 9, no. 3, 1965, 199-201	<b>U</b>	
 TOPIC TAGS: blood serum, protein electrophoresis, protein, X may, ra	1 4	ia.
 ABSTRACT: Paper electrophoresis was used to determine the effects of month), fractional X irradiation (760 r) on the protein constituents Chamic irradiation considerably altered the electrophoretic protein was reducing the relative content of the albumins and elevating the late glabulin level damped on the first remained unaffected. The changes in albumins and elevating the more than 90 days. The decrease in all months are the second to the second of these proteins into the picual tion.	chronic (one in rat serum. pattern, main of the paul street, main stre	i la
ABSTRACT: Paper electrophoresis was used to determine the effects of month), fractional X irradiation (760 r) on the protein constituents Chamic irradiation considerably altered the electrophoretic protein was reducing the relative content of the albumins and elevating the late globulin level decorated the changes in albumins and elevating the remained unaffected. The changes in albumins and elevating the changes in albumins and elevating the changes in albumins and elevating the changes in albumins and elevating the changes in albumins and elevating the changes are albumined to the change	chronic (one in rat serum. pattern, main stort the sauding at a constant the consta	i la

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FOMICHENKO,

USSR/Human and Animal Physiology. Digestion.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 36546.

Author : Cherkasova, L.S., Kukushkina, V.A., Mironova, T.M.

Reinberger, V.G., Fomichenko, K.V. : Institute of Physiology BSSR. - Lab of Blackem. Inst

: The Effect of Mechanial Stimulation of Gastric Title

Receptors on Metabolic Processes Under Conditions of Exclusion of Certain Areas of the Brain Cortex.

Orig Pub: Tr. In-taFiziol. AN BSSR 1956, 1, 180-193.

Abstract: The fasting glucose blood level (G) in dogs increased following removal of the premotor area of the cortex of the left hemisphere. Distension of the storach prior to the operation lowered the fasting G level during the first 15 min and raised it somewhat after 30-45 minutes; following the operation, this produced

: 1/2 Card

USSR/Human and Animal Physiology. Digestion.

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only a slight docrease of the level in the first 5 min. The alimentary hyperglycomia following feeding persisted much longer in the operated than in the non-operated dogs, and gastric distension also prevented the appearance of the maximum raise of glycemia. The removal of the motor area of the cortex of both hemispheres in rats produced storage of glycogen in the liver and a marked increase in muscle tissue content of creatin-phospheric acid and preorganic P; the content in the brain tissue of creatinphosphoric quotient of the muscle tissue remained of the same intensity. The reaction to mechanical stimulation of the receptors of the stomach in operated rats and rabbits remained the same as in mon-operated animals.

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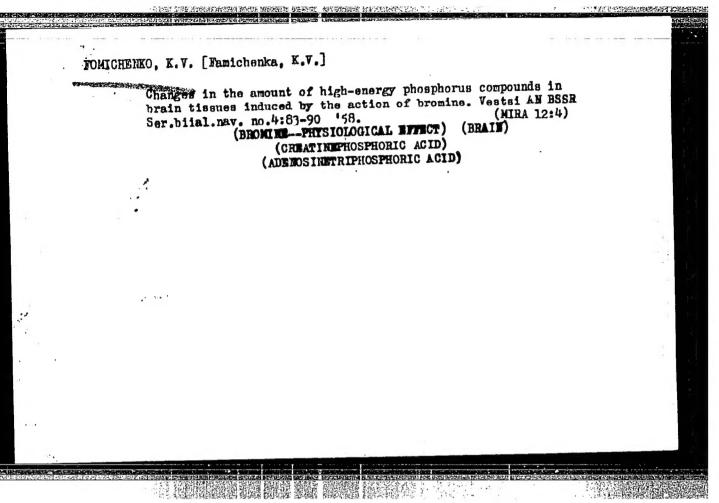
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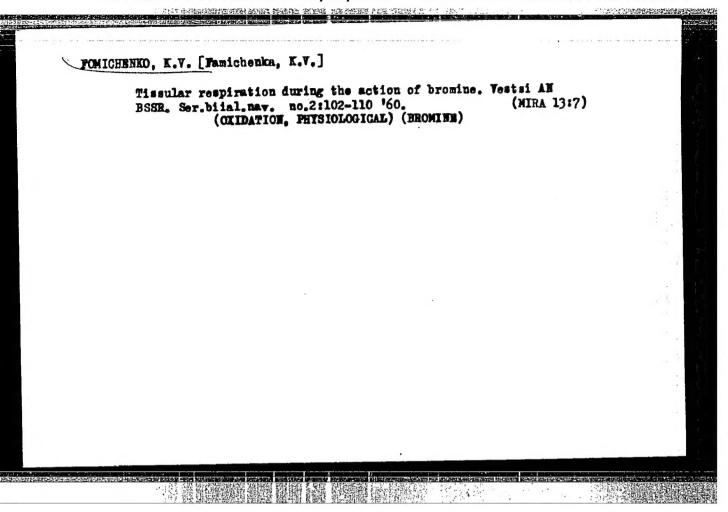
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(STOMACH--INNERVATION)
(MUSCLE)





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(BROMINE—PHYSIOLOGICAL EFFECT)

(PHOSPHORUS METABOLISM)